(ii) cleaving diverse biological polymers from the solid substrate by cleaving the cleavable linkers, thereby creating a mixture of diverse unbound biological polymers; and

(iii) measuring presence of diverse unbound biological polymers as an indicator of the efficiency of the synthesizing step.

10. (Amended) A method for measuring the effect of altering a polymer array synthesis protocol, comprising:

(i) synthesizing [an] a preselected array of diverse biological polymers occupying different regions on a [planar surface on a] solid support by a first synthesis protocol, thereby creating a reference array of biological polymers;

(ii) synthesizing [an] a preselected array of diverse biological polymers occupying different regions on a [planar surface on a] solid support synthesized by a second synthesis protocol, wherein the second synthesis protocol is different than the first synthesis protocol, thereby creating a test array of biological polymers;

(iii) cleaving separately the reference array of biological polymers and the test array of biological polymers, thereby creating a mixture of diverse cleaved biological polymers from the reference array and a mixture of diverse cleaved biological polymers from the test array;

(iv) measuring presence of diverse cleaved biological polymers from the test array as an indicator of the efficiency of the first synthesis procedure and measuring presence of diverse cleaved biological polymers from the reference array as an indicator of the efficiency of